CLAIMS

We claim:

- 1. A wheelchair pushrim system comprising:
 - a) a pushrim;
 - b) a wheel connected to the pushrim; and
 - c) an insert compressibly fit between the pushrim and the wheel.
- 2. The system of claim 1 wherein the insert is made of a substantially elastic material.
- 3. The system of claim 2 wherein the insert is a concave trough.
- 4. The system of claim 1 wherein the pushrim is substantially hollow.
- 5. The system of claim 4 wherein the pushrim has an elongated circular cross-section.
- 6. The system of claim 4 wherein the pushrim has an oval cross-section.
- 7. The system of claim 4 wherein the pushrim further comprises at least one rib which improves structural strength.
- 8. The system of claim 1 wherein the insert has a gripping texture.
- 9. The system of claim 1 wherein the pushrim has a substantially smooth texture.
- 10. The system of claim 1 wherein the pushrim is connected to the wheel with at least one tab mount.
- 11. The system of claim 1 wherein the pushrim is connected to the wheel with at least one rivet-nut mount.
- 12. The system of claim 1 wherein the insert is coated with neoprene.
- 13. A wheelchair pushrim system comprising:
 - a) a pushrim having a non-circular cross-section;
 - b) a wheel;
 - c) a connector connecting the pushrim to the wheel; and
 - d) an insert fit between the pushrim and the wheel.
- 14. The system of claim 13 wherein the insert is compressibly fit between the pushrim and the wheel.

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- 15. The system of claim 13 wherein the pushrim has an elongated circular crosssection.
- 16. The system of claim 13 wherein the pushrim has an oval cross-section.
- 17. The system of claim 13 wherein the pushrim further comprises at least one support rib.
- 18. The system of claim 13 wherein the insert has a gripping texture.
- 19. The system of claim 13 wherein the pushrim has a substantially smooth texture.
- 20. A wheelchair pushrim system comprising:
 - a) a pushrim;
 - b) a wheel connected to the pushrim, wherein the pushrim has:
 - i. an elongated circular cross-section; and
 - ii. a support rib;
 - c) an insert compressibly fit between the pushrim and the wheel, wherein the insert:
 - i. is made of a substantially elastic material;
 - ii. is a concave trough; and
 - iii. has a gripping texture.
- 21. The system of claim 20 wherein the insert is coated with neoprene.
- 22. A metal pushrim comprising:
 - a) a substantially hollow tube of metal bent into a substantially circular shape, the cross-section of the tube comprising:
 - (i) a first round end having a first wall thickness;
 - (ii) a second round end having a second wall thickness; and
 - (iii) a substantially flat first side and a substantially flat second side connecting the first round end to the second round end.
- 23. The system of claim 22 wherein the pushrim is manufactured from a single piece of metal.
- 24. The system of claim 22 wherein:
 - a) the first wall thickness is about 0.05 inches to about 0.06 inches; and
 - b) the second wall thickness is about 0.05 inches to about 0.06 inches.

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- 25. A method of making a hollow metal pushrim, having a non-circular cross-section of substantially uniform thickness, comprising the steps of:
 - a) extruding a substantially hollow tube of metal in which its cross-section has:
 - (i) a first round end having a first wall thickness;
 - (ii) a second round end having a second wall thickness, where the second wall thickness is greater than the first wall thickness; and
 - (iii) a first side and a second side connecting the first round end to the second round end; and
 - b) bending the tube into a circular shape to form a pushrim, where the first round end is the inside diameter of the pushrim.

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